



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010661
CERTIFICATION DATE: September 9, 2014
DATE RECERTIFICATION DUE: March 8, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

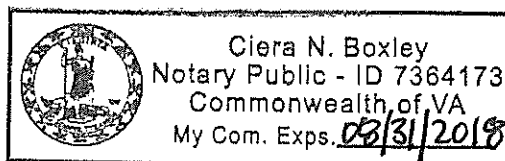
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 11th day of September, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
9/9/2013 To 9/9/2014**

*HMS
mmB*

Instrument Serial Number:	010661	As of 09-Sep-14
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Maintenance Date	Certification Date	Technician Initials	Remarks
09-Sep-14	09-Sep-14	HMS (18910)	REPLACED UPS BACK-UP BATTERY, CERTIFIED, REPLACED DRY GAS STANDARD.
14-Mar-14	14-Mar-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
24-Sep-13	24-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.

INTOX EC/IR II Quality Assurance Worksheet

mmB

Instrument Serial Number **010661** Worksheet Start Date **9/9/2014**
 Location **Norfolk Naval Shipyard**
 Address **Building 1618 Norfolk Naval Shipyard VA 23709**
 DFS Technician **Heather Stanton** License No. **18910**

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) **760** Reference Barometer (mm HG) **762**
 Reference Barometer(RB)Serial # **009113** RB Calibration Due **4/28/2015**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.300	0.291	0.309	Sample 2	0.301
Precision		sample min	sample max	Sample 3	0.301
0		0.301	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

Dry gas standard Lot No. (with tank no.) **AG320502-01**

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
 Mouthpieces
 Certificates of Analysis
 Operator Worksheet
 Other:



Notes:

Replaced UPS back-up battery.

Instrument Serial Number

010661

Certification Date

9/9/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.250
0.250	0.250	0.242	0.257	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.250
0		0.250	0.250		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.150	0.145	0.154	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0.001		0.150	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath A. Starn

Date

9/9/14

Issuing Analyst

Michelle Bell

Date

9/11/14

TLN

HMS
mmB




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/09/2014
TEST EQUIPMENT NUMBER 010661		

RESULTS: TIME SAMPLE TAKEN 11:42 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

Replaced UPS back-up battery.

*HMS
9/9/14*

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Sep 2014 at 15:41

mmB

Test Results

Instrument Serial Number 010661

Test # 000164 Subject Test

Test Location 1 Department of

Test Date 09 Sep 2014

Test Location 2 Forensic Science

Test Time 11:35

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name STANTON

Agency DFS Central Lab

Card Serial Number 118910

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name HEATHER

License Number 18910

Effective Date 10/01/2012

Subject's Date of Birth 00/00/0000

Operator's Middle Initial M

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 09 Sep 2014 End Time 11:43

Result Time 11:42

Result Date 09 Sep 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:36

Data Type BLK

Sample Value 0.000

Sample Time 11:36

Data Type CHK

Sample Value 0.102

Sample Time 11:37

Data Type BLK

Sample Value 0.000

Sample Time 11:38

Data Type SUBJ

Sample Value 0.000

Sample Time 11:39

Data Type BLK

Sample Value 0.000

Sample Time 11:40

Data Type SUBJ

Sample Value 0.000

Sample Time 11:42

Data Type BLK

Sample Value 0.000

Sample Time 11:43

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG226201-29

Standard Expiration Date 09/18/2014

Tank Pressure 301

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.37 sec

Blow Volume 1714 cc End-of-Blow Time 11:39

Blow Sample Number 2 Blow Duration 3.39 sec

Blow Volume 1752 cc End-of-Blow Time 11:42

Tamper Evident Stamp 6a2ebebc

Test Status Code 0

Test Status Success

HMS

HMS
09/11/14

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 165

Test Date: 09/09/2014 Test Time: 11:56 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 16114250I4-02 Exp Date: 07/05/2016

Tank Pressure: 747 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:57
BLK	0.000	11:58
CHK	0.250	11:59
BLK	0.000	12:00
CHK	0.251	12:01
BLK	0.000	12:02
CHK	0.250	12:03
BLK	0.000	12:05

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

I entered incorrect lot number.

HMS
9/9/14

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 166
Test Date: 09/09/2014 Test Time: 12:08 EDT

Technician Initials: *HMS*

Dry Gas Target: 0.250

Lot Number: 1611425014-03 Exp Date: 07/05/2016

Tank Pressure: 742 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:09
BLK	0.000	12:10
CHK	0.250	12:10
BLK	0.000	12:12
CHK	0.250	12:13
BLK	0.000	12:15
CHK	0.250	12:16
BLK	0.000	12:17

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 167

Test Date: 09/09/2014 Test Time: 12:19 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 1611415013-01 Exp Date: 07/05/2016

Tank Pressure: 1012 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:19
BLK	0.000	12:20
CHK	0.150	12:21
BLK	0.000	12:22
CHK	0.151	12:23
BLK	0.000	12:25
CHK	0.151	12:25
BLK	0.000	12:27

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 168
Test Date: 09/09/2014 Test Time: 12:29 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 3441308012-01 Exp Date: 01/01/2016

Tank Pressure: 875 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:29
BLK	0.000	12:30
CHK	0.080	12:31
BLK	0.000	12:32
CHK	0.080	12:33
BLK	0.000	12:34
CHK	0.080	12:35
BLK	0.000	12:36

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 169

Test Date: 09/09/2014 Test Time: 12:38 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 3441302011-02 Exp Date: 01/01/2016

Tank Pressure: 497 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:38
BLK	0.000	12:39
CHK	0.019	12:40
BLK	0.000	12:41
CHK	0.019	12:42
BLK	0.000	12:43
CHK	0.019	12:44
BLK	0.000	12:45

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Handwritten initials and "mmB" in the top right corner.

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010661 Test Number: 170

Test Date: 09/09/2014 Test Time: 12:48 EDT

Dry Gas Target: 0.300

Lot Number: AG421201-01 Exp Date: 07/31/2016

Tank Pressure: 188 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:48
CHK	0.301	12:49
BLK	0.000	12:51
CHK	0.301	12:52
BLK	0.000	12:54
CHK	0.301	12:55

Test Status: *Success*

Calibration CRC: FF9AA030

HMS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010661 Test Number: 171

Test Date: 09/09/2014 Test Time: 12:57 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-01 Exp Date: 07/24/2015

Tank Pressure: 276 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:58
CHK	0.100	12:59
BLK	0.000	13:00
CHK	0.100	13:01
BLK	0.000	13:03
CHK	0.100	13:04

Test Status: *Success*

Calibration CRC: FF9AA030




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

LMS
mmb

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/09/2014
TEST EQUIPMENT NUMBER 010661		

RESULTS: TIME SAMPLE TAKEN 13:11 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Sep 2014 at 15:41

AMS
mmB

Test Results

Instrument Serial Number 010661

Test # 000172 Subject Test

Test Location 1 Department of
Test Date 09 Sep 2014

Test Location 2 Forensic Science
Test Time 13:05
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 09 Sep 2014 End Time 13:13

Result Time 13:11

Result Date 09 Sep 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:05

Data Type BLK

Sample Value 0.000

Sample Time 13:06

Data Type CHK

Sample Value 0.100

Sample Time 13:07

Data Type BLK

Sample Value 0.000

Sample Time 13:08

Data Type SUBJ

Sample Value 0.000

Sample Time 13:09

Data Type BLK

Sample Value 0.000

Sample Time 13:10

Data Type SUBJ

Sample Value 0.000

Sample Time 13:11

Data Type BLK

Sample Value 0.000

Sample Time 13:12

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-01

Standard Expiration Date 07/24/2015

Tank Pressure 272

Barometric Pressure 761 mmHg

Blow Sample Number 1 Blow Duration 3.52 sec

Blow Volume 1778 cc End-of-Blow Time 13:09

Blow Sample Number 2 Blow Duration 3.45 sec

Blow Volume 1749 cc End-of-Blow Time 13:11

Tamper Evident Stamp a95cce6c

Test Status Code 0

Test Status Success